

CLAIMS

1. Door

-- with a leaf, which can be moved between an open position and a closed position;

-- with a guide element (40), which is fastened to the leaf and which cooperates with a guide rail (20) to guide the movement of the leaf; and

-- with a locking device (50), which can be shifted between a release position, in which it allows the movement of the leaf, and a blocking position, in which it opposes the movement of the leaf, the locking device being equipped with a locking element (70), which, when the device is moved into the blocking position, comes to rest against a contact surface (25) of the guide rail (20),

characterized in that,

when in the locking position, the locking element (70) can be pressed against the contact surface (25) by a thrust element, especially by the guide element (40), which is attached to the door leaf.

2. Door according to Claim 1, characterized in that, when the locking device (50) is shifted into the locking position, the locking element (70) can be laid against the guide element (40).

3. Door according to Claim 2, characterized in that the locking element (40) has a first, essentially flat contact surface (76), which comes to rest against the contact surface (25) when the device is in the locking position, and a second contact surface (78), which, in the locking position, rests against the guide element (40), where the first contact surface (76) forms an acute angle of preferably less than 30°, especially of approximately 20°, with the second contact surface (78).

4. Door according to one of the preceding claims, characterized by a pretensioning device (90), which tries to push the locking element (70) into the locking position.

5. Door according to Claim 4, characterized in that the locking device (50) is connected by a tensioning means (100) to a drive device and/or to a counterbalancing device, realized,

for example, in the form of a tension or torsion spring arrangement, in such a way that it can be subjected by the drive device and/or the counterbalancing device to a force which opposes the pretensioning force of the pretensioning device (90) and pushes the locking device into the release position.

6. Door according to Claim 5, characterized in that the locking device (50) has a lever (60), which is supported so that it can pivot around a pivot axis (43) more-or-less perpendicular to the longitudinal direction of the guide rail (20), which lever can be connected on one side of the pivot axis (43) to the tensioning means (100) and on the other side of the pivot axis (43) to the locking element (70).

7. Door according to Claim 6, characterized in that the locking element (70) is mounted on the lever (60) so that it can tilt around a tilt axis which is more-or-less parallel to the pivot axis (43).

8. Door according to Claim 6 or Claim 7, characterized in that the pretensioning device (90) has a torsion spring, one end of which acts on the lever (60), whereas the other end is supported at least indirectly against the door leaf.

9. Door according to one of the preceding claims, characterized in that the locking device has a support element (82), which is located on the side of the guide rail opposite the guide rail's contact surface.

10. Door according to Claim 9, characterized in that the support element (82) is supported so that it can pivot around the pivot axis (43).

11. Door according to one of the preceding claims, characterized in that the guide element (40) has a support shaft (42), which is more-or-less perpendicular to the longitudinal axis of the guide rail (20) and parallel to the plane of the door leaf, which shaft passes through the lever (60), through the torsion spring (90), and/or through the support element (80).

12. Door according to one of the preceding claims, characterized in that the locking device (50) can be attached to the door leaf by a bracket element (30).

13. Door according to Claim 12, characterized in that the bracket element (30) has a U-shaped profile with a connecting

sidepiece (32), which is attached to a boundary surface of the door leaf, and two outer sidepieces (34, 36), through which the support shaft (42) passes.

14. Door according to one of the preceding claims, characterized in that the locking device (50) is located in the area of the edge of the door leaf which is at the bottom when the door is closed.

15. Door according to one of the preceding claims, characterized in that the guide element (40) has a guide roller (44), which is supported so that it can rotate around the longitudinal axis of the support shaft (42).

16. Door according to Claim 15, characterized in that, in the cross-sectional plane perpendicular to its longitudinal axis, the guide rail (20) has a profile in the shape of a ``C'' or a ``J'' and is designed to accept the guide roller (44).

17. Door according to one of the preceding claims, characterized in that the contact surface (25) is more-or-less parallel to the plane of the door leaf.

18. Door according to one of the preceding claims, characterized in that the door leaf has a plurality of panels (10), which are arranged next to each other in the direction of door leaf travel and are hinged to each other so that they can pivot around pivot axes which are perpendicular to the direction of door leaf travel.

19. Locking device for a door according to one of the preceding claims with a locking element (70), which, when in the locking position, is located between a thrust element, especially the guide element (40), which is attached to the door leaf, and the guide rail (20).